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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/20/2008

Morgan, Lewis & Bockins LLP 1111 PENNSYLVANIA AVENUE, NW Washington, DC 20004 EXAMINER

QI, ZHI QIANG

ART UNIT PAPER NUMBER

2871

DATE MAILED: 08/20/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	09/843.781	04/30/2001	Woo Hyuk Choi	041501-5423	1083

TITLE OF INVENTION: REPAIR STRUCTURE FOR LIQUID CRYSTAL DISPLAY AND METHOD OF REPAIRING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence including below or directed other	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of m a) specifying a new corres	paintenance fees will condence address; a	be mailed to the curren nd/or (b) indicating a sep	t correspondence address as parate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				s) Transmittal. This or rs. Each additional p	certificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
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	s & Bockins LLP VANIA AVENUE, 2 20004	, NW	I her State addr trans	eby certify that this is Postal Service with essed to the Mail Smitted to the USPTC	Fee(s) Transmittal is being sufficient postage for fultop ISSUE FEE address 0 (571) 273-2885, on the	g deposited with the United est class mail in an envelope above, or being facsimile date indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	А	TTORNEY DOCKET NO.	CONFIRMATION NO.
09/843,781	04/30/2001	•	Woo Hyuk Choi	•	041501-5423	1083
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nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/20/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
QI, ZHI	•	2871	349-054000			
1. Change of correspondence address or indication of "Fee Address" (3° CFR 1.363).  ☐ Change of correspondence address (or Change of Correspondenc Address form PTO/SB/122) attached.  ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED C			or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
recordation as set forti (A) NAME OF ASSIC	h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	I' a substitute for filing an a	and STATE OR CO	UNTRY)	document has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	Individual	oration or other private gi	coup entity Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			<ul> <li>Payment of Fee(s): (Please</li> <li>A check is enclosed.</li> <li>Payment by credit care</li> <li>The Director is hereby overpayment, to Depose</li> </ul>	I. Form PTO-2038 is	s attached. the required fee(s), any d	
	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long			
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a registe	ered attorney or agent; or t	he assignee or other party in
Authorized Signature				Date		
Typed or printed name			Registration No			
This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria, V	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bur irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or re 1.14. This collection is esti depending upon the indivi e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 min dual case. Any com r, U.S. Patent and Tr DTHIS ADDRESS. S	public which is to file (ar nutes to complete, includi ments on the amount of t ademark Office, U.S. Dep SEND TO: Commissioner	nd by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

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75	90 08/20/2008	EXAMINER			
Morgan, Lewis &	Bockins LLP	QI, ZHI QIANG			
1111 PENNSYLVANIA AVENUE, NW			ART UNIT	PAPER NUMBER	
Washington, DC 20	0004		2871		
			DATE MAILED: 08/20/2008		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 848 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 848 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	09/843,781	CHOI, WOO HYUK
Notice of Allowability	Examiner	Art Unit
	   Mike Qi	2871
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicated IGHTS. This application is subjected and MPEP 1308.	s application. If not included ation will be mailed in due course. <b>THIS</b> ect to withdrawal from issue at the initiative
1. This communication is responsive to <u>BPAI decision of Mar</u>	rcn 25, 2008, and the petition gra	anted on Aug.11, 2008.
2. The allowed claim(s) is/are <u>1,3-8,17-19,21-24 and 26</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unanal All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> </ul>	e been received. e been received in Application N	o
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application.  nitted. Note the attached EXAMIN	NER'S AMENDMENT or NOTICE OF
<u> </u>	. , -	Saration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		OTO 049) ottochod
<ul><li>(a) ☐ including changes required by the Notice of Draftspers</li><li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li></ul>	• .	710-946) attached
(b) including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	's Amendment / Comment or in t	rawings in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIA	AL must be submitted. Note the
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5.	nal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sumn	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mai 7. ⊠ Examiner's Am	endment/Comment
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Star 9. ☐ Other	tement of Reasons for Allowance

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Art Unit: 2871

### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- 1) According to the "Decision on Appeal" decided on March 25, 2008, the claims 9, 12, 15 and 16 remain rejected over prior art, and the claims 1, 3-8, 17-19, 21-24 and 26 are allowed. Therefore, claims 9, 12, 15 and 16 have been canceled, and the claims 1, 3-8, 17-19, 21-24 and 26 have been allowed.
- 2) The petition to withdraw the abandonment is granted. Accordingly, the previous abandonment mailed on June 3, 2008 has been withdrawal.

## Allowable Subject Matter

- 2. Claims 1, 3-8, 17-19, 21-24 and 26 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1, 3-8, 17-19, 21-24 and 26 are allowable because the prior art of record neither anticipated nor rendered obvious that a repair structure for a liquid crystal display and the repairing method comprise various elements and steps as claimed with specific features recited in the claims 1, 17 and 22 as follows:

In claim 1, the repair pattern has a portion overlapping the pixel electrodes as shown in Fig.2.

In claim 17, the repairing method has additional step of forming an insulating material to fill portions between the first and second segments of the data lines and between the second and third segments of the data lines as shown in Fig.5.

In claim 22, the repairing method has additional step of forming an insulating material to fill portions between the first and second segments of the scan lines and between the second and third segments of the scan lines as shown in Fig.8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Qi whose telephone number is (571) 272-2299. The examiner can normally be reached on M-T 7:30 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mike Qi/ Primary Examiner, Art Unit 2871